MISCELLANEOUS REPORT NO. 26

COMMODITY DRAIN FROM FORESTS OF THE LAKE STATES

1952

By Arthur G. Horn, Forest Economist

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
Lake States Forest Experiment Station

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INTRODUCTION

Industries and public agencies frequently request data on forest products manufacture and timber drain. To meet these demands effectively and to provide estimates for forest surveys, the Station periodically prepares summaries such as presented here for 1952. With the exception of 1951, similar reports have been prepared each year since 1946. 3/

In using the data given in this report, one should keep in mind the standards and definitions used in compiling the information (see definitions).

Basis for Production Statistics

Because 1952 lumber production figures were not available from the Bureau of Census, the Station had to develop its own plan for making independent estimates of lumber production. A brief statement regarding the source of the production data and the procedure used for making these estimates follows:

Minnesota

A complete canvass of sawmills to obtain the 1952 cut of lumber by species was made in 45 counties by field personnel of the Office of Iron Range Resources and Rehabilitation and Minnesota Forest Service.

The production data obtained in the 45 counties were applied on an area basis to the other 15 lumber producing counties in the state. The small volume of lumber produced in the remaining 27 counties in the southwestern part of the state was accounted for by applying a production ratio based on past lumber production records. Over a period of years these 27 counties have accounted for less than one percent of the state's annual lumber output.

1/ The author gratefully acknowledges the help from the Office of Iron Range Resources & Rehabilitation, State Conservation Departments, and of many owners and operators of primary wood-using establishments in the region who so kindly cooperated and furnished much of the basic information so necessary in this report.

2/ Maintained by the U. S. Department of Agriculture, Forest Service, in cooperation with the University of Minnesota, St. Paul Campus, St. Paul 1, Minnesota.

3/ Miscellaneous Report No. 7 (1946); Miscellaneous Report No. 9 (1947); Station Paper No. 20 (1948); Miscellaneous Report No. 19 (1949); and Miscellaneous Report No. 18 (1950).

Wisconsin - Michigan

No census data were available for 1952 but the Station had regional estimates of the Bureau of Census for 1950 from which it had derived state estimates for that year. The Station also had lumber production records for 1950 and 1952 for nearly 50 percent of the large mills and 17 percent of the medium-size mills in each of the two states. By use of these identical mills and the 1950 state estimates, the large and medium mill output was calculated for each state. The species distribution was kept in the proportions shown by the 1950 records.

Forest Survey collaborators obtained 1952 data for small sawmills in 8 scattered counties in Wisconsin and 10 in Michigan. Total state lumber production figures for the small mill class was calculated from this sample by area ratio.

For the commercial and container veneer, pulp, distillation, cooperage, and excelsior industry a 100 percent canvass was made of all plants known to have procured logs and bolts from the Lake States region. The 1952 log and bolt receipt figures obtained from these industries were used as a basis for production estimates.

For such items as round and split mine materials, piling, utility poles, etc., a complete canvass was made of all the iron and copper mines operating in the region, and of all the known wholesalers and distributors of piling and utility poles.

Fuelwood and fence post estimates are based on information collected by Forest Survey cooperators from farmers and other rural nonfarm residents in about 20 counties in each state. Additional information on post production was obtained from carloading reports of railroads operating in the region.

Conversion Factors

The Station has collected supplemental information on each product as to:- (1) percent of wood volume obtained from live, dead, and cull trees, and from by-product materials, and (2) proportion of volume cut from sawtimber and poletimber trees. Gross volumes of individual products were determined from information furnished by industry. For example, stock records for posts, poles, and piling showed the number of pieces by length, top, and butt diameters. Such information made possible calculations of gross volume for each product. By incorporating these findings with utilization data collected during a recent field survey (1953), a set of conversion and waste factors were prepared for the major products which are closely in line with present utilization standards of wood-using industries.

General Limitations of Data

The Forest Survey accuracy goal for timber drain estimates is ±5 percent per billion cubic feet, which would permit a standard error of slightly less than 7 percent on the 1952 estimate for the Lake States. Because of the variety of sources and methods used, it is almost impossible to calculate the probable errors of the 1952 estimate. It is believed, however, that the total falls within this limit. In any case, we feel that the estimates are the best obtainable at this time and will serve a useful purpose.

Survey Definitions

Commodity production--The gross volume of a forest product cut from any class of material from commercial or noncommercial forest lands. Production has been expressed in the following standard survey units:- Board-foot log scale; International 1/4-inch rule; cord (4x4x8 feet); rough-wood basis; number of pieces; number of lineal feet; and number of cubic feet (inside bark).

Cutting drain--The net volume of timber removed from growing stock on commercial forest lands through commodity production and logging waste during the year, expressed in board feet, International 1/4-inch rule, and cubic feet (i.b.).

Drain from sawtimber trees--The net volume (board feet, International 1/4-inch) of the log portion in softwood trees 9 inches and larger, and hardwood trees 11 inches and larger, d.b.h., removed during logging operations. The cubic-foot volume shown includes both the sawlog equivalent plus the volume in the tops to a 4-inch minimum.

Drain from poletimber trees--The net volume in cubic feet (i.b.) of poletimber removed through cutting during the year. Included in this class are softwood trees from 5.0 to 8.9 inches and hardwood trees from 5.0 to 10.9 inches d.b.h. It includes cubic-foot volume found in the tree stems to a minimum top diameter of 4 inches (i.b.).

CUTTING DRAIN FROM PRIMARY GROWING STOCK

1952

Table 1. - Net timber drain resulting from cutting sawlogs and sawbolts in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	49,121	10,963	49,121	9,291	1,672
Minnesota	19,005	4,242	19,005	3,595	647
Wisconsin	18,361	4,098	18,361	3,473	625
Michigan	11,755	2,623	11,755	2,223	400
Red pine	37,410	8,349	37,410	7,076	1,273
Minnesota	22,480	5,017	22,480	4,252	765
Wisconsin	11,026	2,461	11,026	2,086	375
Michigan	3,904	871	3,904	738	133
Jack pine	52,664	11,755	52,664	9,962	1,793
Minnesota	35,332	7,886	35,332	6,684	1,202
Wisconsin	6,950	1,551	6,950	1,314	237
Michigan	10,382	2,318	10,382	1,964	354
Spruce	6,624	1,480	6,624	1,254	226
Minnesota	3,063	684	3,063	580	104
Wisconsin	730	163	730	138	25
Michigan	2,831	633	2,831	536	97
Balsam	3,261	727	3,261	616	111
Minnesota	2,231	498	2,231	422	76
Wisconsin	558	124	558	105	19
Michigan	472	105	472	89	16
Tamarack	2,078	463	2,078	392	71
Minnesota	876	195	876	165	30
Wisconsin	730	163	730	138	25
Michigan	472	105	472	89	16
Cedar	5,730	1,280	5,730	1,085	195
Minnesota	1,784	398	1,784	338	60
Wisconsin	1,115	249	1,115	211	38
Michigan	2,831	633	2,831	536	97
Hemlock	92,279	20,604	92,279	17,455	3,149
Minnesota	-	-	-	-	-
Wisconsin	31,704	7,084	31,704	5,997	1,087
Michigan	60,575	13,520	60,575	11,458	2,062
Softwood total	249,167	55,621	249,167	47,131	8,490
Minnesota	84,771	18,920	84,771	16,036	2,884
Wisconsin	71,174	15,893	71,174	13,462	2,431
Michigan	93,222	20,808	93,222	17,633	3,175
Maple	211,655	42,907	211,655	39,026	3,881
Minnesota	1,392	283	1,392	257	26
Wisconsin	58,317	11,823	58,317	10,753	1,070
Michigan	151,946	30,801	151,946	28,016	2,785
Birch	57,255	11,608	57,255	10,558	1,050
Minnesota	5,071	1,029	5,071	936	93
Wisconsin	15,581	3,159	15,581	2,873	286
Michigan	36,603	7,420	36,603	6,749	671
Basswood	44,966	9,115	44,966	8,291	824
Minnesota	9,008	1,826	9,008	1,661	165
Wisconsin	21,529	4,364	21,529	3,969	395
Michigan	14,429	2,925	14,429	2,661	264
Elm	60,649	12,293	60,649	11,181	1,112
Minnesota	8,556	1,734	8,556	1,577	157
Wisconsin	21,944	4,448	21,944	4,046	402
Michigan	30,149	6,111	30,149	5,558	553
Beech	24,433	4,953	24,433	4,505	448
Minnesota	-	-	-	-	-
Wisconsin	1,199	243	1,199	221	22
Michigan	23,234	4,710	23,234	4,284	426
Oak	115,093	23,331	115,093	21,222	2,109
Minnesota	19,298	3,911	19,298	3,558	353
Wisconsin	52,922	10,728	52,922	9,758	970
Michigan	42,873	8,692	42,873	7,906	786
Aspen	54,317	29,835	54,317	10,627	19,208
Minnesota	16,105	8,846	16,105	3,151	5,695
Wisconsin	22,770	12,507	22,770	4,455	8,052
Michigan	15,442	8,482	15,442	3,021	5,461
Cottonwood	8,548	1,732	8,548	1,575	157
Minnesota	4,075	826	4,075	751	75
Wisconsin	2,075	420	2,075	382	38
Michigan	2,398	486	2,398	442	44
Miscellaneous	16,226	3,287	16,226	2,990	297
Minnesota	1,972	400	1,972	363	37
Wisconsin	5,440	1,102	5,440	1,003	99
Michigan	8,814	1,785	8,814	1,624	161
Hardwood total	593,142	139,061	593,142	109,975	29,086
Minnesota	65,477	18,855	65,477	12,254	6,601
Wisconsin	201,777	48,794	201,777	37,460	11,334
Michigan	325,888	71,412	325,888	60,261	11,151
All Species	842,309	194,682	842,309	157,106	37,576
Minnesota	150,248	37,775	150,248	28,290	9,485
Wisconsin	272,951	64,687	272,951	50,922	13,765
Michigan	419,110	92,220	419,110	77,894	14,326

Table 2. - Net timber drain resulting from cutting veneer logs in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	250	45	250	45	-
Minnesota	8	1	8	1	-
Wisconsin	52	10	52	10	-
Michigan	190	34	190	34	-
Red pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Jack pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Spruce	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cedar	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hemlock	153	28	153	28	-
Minnesota	-	-	-	-	-
Wisconsin	153	28	153	28	-
Michigan	-	-	-	-	-
Softwood total	403	73	403	73	-
Minnesota	8	1	8	1	-
Wisconsin	205	38	205	38	-
Michigan	190	34	190	34	-
Maple	24,769	4,260	24,769	4,260	-
Minnesota	864	148	864	148	-
Wisconsin	7,527	1,294	7,527	1,294	-
Michigan	16,378	2,818	16,378	2,818	-
Birch	18,978	3,265	18,978	3,265	-
Minnesota	367	62	357	62	-
Wisconsin	4,859	836	4,859	836	-
Michigan	13,762	2,367	13,762	2,367	-
Basswood	10,809	1,860	10,809	1,860	-
Minnesota	3,197	550	3,197	550	-
Wisconsin	4,234	729	4,234	729	-
Michigan	3,378	581	3,378	581	-
Elm	11,942	2,054	11,942	2,054	-
Minnesota	1,010	173	1,010	173	-
Wisconsin	8,231	1,416	8,231	1,416	-
Michigan	2,701	465	2,701	465	-
Beech	3,287	565	3,287	565	-
Minnesota	-	-	-	-	-
Wisconsin	17	3	17	3	-
Michigan	3,270	562	3,270	562	-
Oak	5,273	906	5,273	906	-
Minnesota	839	144	839	144	-
Wisconsin	3,570	614	3,570	614	-
Michigan	864	148	864	148	-
Aspen	1,447	247	1,447	247	-
Minnesota	684	117	684	117	-
Wisconsin	490	84	490	84	-
Michigan	273	46	273	46	-
Cottonwood	1,576	272	1,576	272	-
Minnesota	1,267	218	1,267	218	-
Wisconsin	283	49	283	49	-
Michigan	26	5	26	5	-
Miscellaneous	2,931	503	2,931	503	-
Minnesota	149	25	149	25	-
Wisconsin	1,763	303	1,763	303	-
Michigan	1,019	175	1,019	175	-
Hardwood total	81,012	13,932	81,012	13,932	-
Minnesota	8,367	1,437	8,367	1,437	-
Wisconsin	30,974	5,328	30,974	5,328	-
Michigan	41,671	7,167	41,671	7,167	-
All Species	81,415	14,005	81,415	14,005	-
Minnesota	8,375	1,438	8,375	1,438	-
Wisconsin	31,179	5,366	31,179	5,366	-
Michigan	41,861	7,201	41,861	7,201	-

Table 3. - Net timber drain resulting from cutting heading stock in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Jack pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Spruce	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cedar	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hemlock	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Softwood total	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Maple	565	171	565	130	41
Minnesota	-	-	-	-	-
Wisconsin	565	171	565	130	41
Michigan	-	-	-	-	-
Birch	301	92	301	69	23
Minnesota	-	-	-	-	-
Wisconsin	226	69	226	52	17
Michigan	75	23	75	17	6
Basswood	1,089	328	1,089	249	79
Minnesota	54	16	54	12	4
Wisconsin	1,014	306	1,014	232	74
Michigan	21	6	21	5	1
Elm	185	56	185	42	14
Minnesota	-	-	-	-	-
Wisconsin	182	55	182	41	14
Michigan	3	1	3	1	-
Beech	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Oak	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Aspen	3,456	1,044	3,456	790	254
Minnesota	253	77	253	58	19
Wisconsin	2,987	902	2,987	683	219
Michigan	216	65	216	49	16
Cottonwood	255	77	255	59	18
Minnesota	7	2	7	2	-
Wisconsin	38	11	38	8	3
Michigan	210	64	210	49	15
Ash	210	64	210	49	15
Minnesota	-	-	-	-	-
Wisconsin	210	64	210	49	15
Michigan	-	-	-	-	-
Hardwood total	6,061	1,832	6,061	1,388	444
Minnesota	314	95	314	72	23
Wisconsin	5,222	1,578	5,222	1,195	383
Michigan	525	159	525	121	38
All Species	6,061	1,832	6,061	1,388	444
Minnesota	314	95	314	72	23
Wisconsin	5,222	1,578	5,222	1,195	383
Michigan	525	159	525	121	38

Table 4. - Net timber drain resulting from pulpwood cutting in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Jack pine	13,521	27,042	13,521	4,126	22,916
Minnesota	7,554	15,109	7,554	2,305	12,804
Wisconsin	3,702	7,404	3,702	1,130	6,274
Michigan	2,265	4,529	2,265	691	3,838
Spruce	17,613	35,224	17,613	5,374	29,850
Minnesota	11,415	22,829	11,415	3,483	19,346
Wisconsin	1,518	3,035	1,518	463	2,572
Michigan	4,680	9,360	4,680	1,428	7,932
Balsam	15,266	30,534	15,266	4,659	25,875
Minnesota	6,367	12,735	6,367	1,943	10,792
Wisconsin	2,956	5,912	2,956	902	5,010
Michigan	5,943	11,887	5,943	1,814	10,073
Tamarack	559	1,118	559	170	948
Minnesota	497	992	497	151	841
Wisconsin	55	111	55	17	94
Michigan	7	15	7	2	13
Cedar	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hemlock	50,725	14,928	50,725	9,886	5,042
Minnesota	-	-	-	-	-
Wisconsin	17,507	5,151	17,507	3,411	1,740
Michigan	33,218	9,777	33,218	6,475	3,302
Softwood total	97,684	108,846	97,684	24,215	84,631
Minnesota	25,833	51,665	25,833	7,882	43,783
Wisconsin	25,738	21,613	25,738	5,923	15,690
Michigan	46,113	35,568	46,113	10,410	25,158
Maple	631	1,464	631	175	1,289
Minnesota	-	-	-	-	-
Wisconsin	360	836	360	100	736
Michigan	271	628	271	75	553
Birch	913	2,119	913	253	1,866
Minnesota	84	195	84	23	172
Wisconsin	527	1,222	527	146	1,076
Michigan	302	702	302	84	618
Basswood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Elm	616	1,432	616	172	1,260
Minnesota	-	-	-	-	-
Wisconsin	180	419	180	51	368
Michigan	436	1,013	436	121	892
Beech	44	104	44	12	92
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	44	104	44	12	92
Oak	26	62	26	7	55
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	26	62	26	7	55
Aspen	29,538	68,594	29,538	8,206	60,388
Minnesota	9,720	22,571	9,720	2,700	19,871
Wisconsin	9,917	23,031	9,917	2,755	20,276
Michigan	9,901	22,992	9,901	2,751	20,241
Cottonwood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Miscellaneous	117	275	117	33	242
Minnesota	73	171	73	21	150
Wisconsin	-	-	-	-	-
Michigan	44	104	44	12	92
Hardwood total	31,885	74,050	31,885	8,858	65,192
Minnesota	9,877	22,937	9,877	2,744	20,193
Wisconsin	10,984	25,508	10,984	3,052	22,456
Michigan	11,024	25,605	11,024	3,062	22,543
All Species	129,569	182,896	129,569	33,073	149,823
Minnesota	35,710	74,602	35,710	10,626	63,976
Wisconsin	36,722	47,121	36,722	8,975	38,146
Michigan	57,137	61,173	57,137	13,472	47,701

Table 5. - Net timber drain resulting from fuelwood cutting in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	720	871	720	373	498
Minnesota	180	217	180	93	124
Wisconsin	240	290	240	124	166
Michigan	300	364	300	156	208
Red pine	600	724	600	309	415
Minnesota	240	289	240	123	166
Wisconsin	240	290	240	124	166
Michigan	120	145	120	62	83
Jack pine	1,860	2,245	1,860	960	1,285
Minnesota	1,320	1,591	1,320	680	911
Wisconsin	420	509	420	218	291
Michigan	120	145	120	62	83
Spruce	180	217	180	93	124
Minnesota	60	72	60	31	41
Wisconsin	-	-	-	-	-
Michigan	120	145	120	62	83
Balsam	120	144	120	62	82
Minnesota	60	72	60	31	41
Wisconsin	-	-	-	-	-
Michigan	60	72	60	31	41
Tamarack	480	579	480	248	331
Minnesota	300	362	300	155	207
Wisconsin	120	145	120	62	83
Michigan	60	72	60	31	41
Cedar	240	292	240	125	167
Minnesota	60	73	60	31	42
Wisconsin	60	74	60	32	42
Michigan	120	145	120	62	83
Hemlock	1,320	1,598	1,320	684	914
Minnesota	-	-	-	-	-
Wisconsin	420	509	420	218	291
Michigan	900	1,089	900	466	623
Softwood total	5,520	6,670	5,520	2,854	3,816
Minnesota	2,220	2,676	2,220	1,144	1,532
Wisconsin	1,500	1,817	1,500	778	1,039
Michigan	1,800	2,177	1,800	932	1,245
Maple	19,170	19,387	19,170	7,457	11,930
Minnesota	270	274	270	106	168
Wisconsin	8,640	8,736	8,640	3,360	5,376
Michigan	10,260	10,377	10,260	3,991	6,386
Birch	8,775	8,866	8,775	3,412	5,454
Minnesota	1,485	1,495	1,485	577	918
Wisconsin	3,780	3,822	3,780	1,470	2,352
Michigan	3,510	3,549	3,510	1,365	2,184
Basswood	1,755	1,773	1,755	683	1,090
Minnesota	810	816	810	315	501
Wisconsin	675	684	675	263	421
Michigan	270	273	270	105	168
Elm	8,505	8,592	8,505	3,307	5,285
Minnesota	1,890	1,902	1,890	734	1,168
Wisconsin	2,295	2,322	2,295	893	1,429
Michigan	4,320	4,368	4,320	1,680	2,688
Beech	3,240	3,278	3,240	1,261	2,017
Minnesota	-	-	-	-	-
Wisconsin	135	138	135	53	85
Michigan	3,105	3,140	3,105	1,208	1,932
Oak	26,865	27,145	26,865	10,447	16,698
Minnesota	4,725	4,757	4,725	1,836	2,921
Wisconsin	16,065	16,245	16,065	6,248	9,997
Michigan	6,075	6,143	6,075	2,363	3,780
Aspen	22,275	22,479	22,275	8,659	13,820
Minnesota	9,855	9,921	9,855	3,829	6,092
Wisconsin	8,100	8,190	8,100	3,150	5,040
Michigan	4,320	4,368	4,320	1,680	2,688
Cottonwood	2,835	2,860	2,835	1,102	1,758
Minnesota	1,485	1,495	1,485	577	918
Wisconsin	540	546	540	210	336
Michigan	810	819	810	315	504
Miscellaneous	3,375	3,412	3,375	1,314	2,098
Minnesota	1,215	1,223	1,215	472	751
Wisconsin	1,350	1,368	1,350	526	842
Michigan	810	821	810	316	505
Hardwood total	96,795	97,792	96,795	37,642	60,150
Minnesota	21,735	21,883	21,735	8,446	13,437
Wisconsin	41,580	42,051	41,580	16,173	25,878
Michigan	33,480	33,858	33,480	13,023	20,835
All Species	102,315	104,462	102,315	40,496	63,966
Minnesota	23,955	24,559	23,955	9,590	14,969
Wisconsin	43,080	43,868	43,080	16,951	26,917
Michigan	35,280	36,035	35,280	13,955	22,080

Table 6. - Net timber drain resulting from cutting logs for piling in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	33	6	33	6	-
Minnesota	33	6	33	6	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	745	128	745	128	-
Minnesota	602	104	602	104	-
Wisconsin	-	-	-	-	-
Michigan	143	24	143	24	-
Jack pine	548	95	548	95	-
Minnesota	548	95	548	95	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Spruce	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	4	1	4	1	-
Minnesota	4	1	4	1	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cedar	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hemlock	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Softwood total	1,330	230	1,330	230	-
Minnesota	1,187	206	1,187	206	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Maple	118	18	118	18	-
Minnesota	-	-	-	-	-
Wisconsin	33	5	33	5	-
Michigan	85	13	85	13	-
Birch	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Basswood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Elm	672	116	672	116	-
Minnesota	-	-	-	-	-
Wisconsin	522	91	522	91	-
Michigan	150	25	150	25	-
Beech	122	21	122	21	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	122	21	122	21	-
Oak	1,325	226	1,325	226	-
Minnesota	-	-	-	-	-
Wisconsin	303	53	303	53	-
Michigan	1,022	173	1,022	173	-
Aspen	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cottonwood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Miscellaneous	132	23	132	23	-
Minnesota	-	-	-	-	-
Wisconsin	17	3	17	3	-
Michigan	115	20	115	20	-
Hardwood total	2,369	404	2,369	404	-
Minnesota	-	-	-	-	-
Wisconsin	875	152	875	152	-
Michigan	1,494	252	1,494	252	-
All Species	3,699	634	3,699	634	-
Minnesota	1,187	206	1,187	206	-
Wisconsin	875	152	875	152	-
Michigan	1,637	276	1,637	276	-

Table 7. - Net timber drain resulting from cutting chemical wood in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Jack pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Spruce	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cedar	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hemlock	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Softwood total	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Maple	5,678	1,638	5,678	1,441	197
Minnesota	-	-	-	-	-
Wisconsin	270	79	270	69	10
Michigan	5,408	1,559	5,408	1,372	187
Birch	2,928	845	2,928	744	101
Minnesota	-	-	-	-	-
Wisconsin	125	36	125	32	4
Michigan	2,803	809	2,803	712	97
Basswood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Elm	312	89	312	78	11
Minnesota	-	-	-	-	-
Wisconsin	26	7	26	6	1
Michigan	286	82	286	72	10
Beech	962	275	962	242	33
Minnesota	-	-	-	-	-
Wisconsin	42	11	42	10	1
Michigan	920	264	920	232	32
Oak	338	97	338	85	12
Minnesota	-	-	-	-	-
Wisconsin	31	9	31	8	1
Michigan	307	88	307	77	11
Aspen	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Ash	333	95	333	83	12
Minnesota	-	-	-	-	-
Wisconsin	26	7	26	6	1
Michigan	307	88	307	77	11
Miscellaneous	52	12	52	10	2
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	52	12	52	10	2
Hardwood total	10,603	3,051	10,603	2,683	368
Minnesota	-	-	-	-	-
Wisconsin	520	149	520	131	18
Michigan	10,083	2,902	10,083	2,552	350
All Species	10,603	3,051	10,603	2,683	368
Minnesota	-	-	-	-	-
Wisconsin	520	149	520	131	18
Michigan	10,083	2,902	10,083	2,552	350

Table 8. - Net timber drain resulting from cutting excelsior bolts in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Jack pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Spruce	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cedar	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hemlock	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Softwood total	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Maple	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Birch	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Basswood	45	339	45	13	326
Minnesota	1	8	1	-	8
Wisconsin	42	315	42	13	302
Michigan	2	16	2	-	16
Elm	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Beech	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Oak	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Aspen	853	6,426	853	250	6,176
Minnesota	7	49	7	1	48
Wisconsin	415	3,133	415	122	3,011
Michigan	431	3,244	431	127	3,117
Cottonwood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Miscellaneous	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hardwood total	898	6,765	898	263	6,502
Minnesota	8	57	8	1	56
Wisconsin	457	3,448	457	135	3,313
Michigan	433	3,260	433	127	3,133
All Species	898	6,765	898	263	6,502
Minnesota	8	57	8	1	56
Wisconsin	457	3,448	457	135	3,313
Michigan	433	3,260	433	127	3,133

Table 9. - Net timber drain resulting from fence post cutting in the Lake States - 1952

Species and total	Net timber drain by size class				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	94	94	94	33	61
Minnesota	94	94	94	33	61
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Jack pine	286	288	286	101	187
Minnesota	270	273	270	96	177
Wisconsin	16	15	16	5	10
Michigan	-	-	-	-	-
Spruce	4	3	4	1	2
Minnesota	4	3	4	1	2
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	37	37	37	13	24
Minnesota	37	37	37	13	24
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	682	688	682	243	445
Minnesota	307	310	307	109	201
Wisconsin	375	378	375	134	244
Michigan	-	-	-	-	-
Cedar	7,627	7,713	7,627	2,713	5,000
Minnesota	781	789	781	278	511
Wisconsin	2,363	2,389	2,363	840	1,549
Michigan	4,483	4,535	4,483	1,595	2,940
Hemlock	16	16	16	5	11
Minnesota	-	-	-	-	-
Wisconsin	16	16	16	5	11
Michigan	-	-	-	-	-
Softwood total	8,746	8,839	8,746	3,109	5,730
Minnesota	1,493	1,506	1,493	530	976
Wisconsin	2,770	2,798	2,770	984	1,814
Michigan	4,483	4,535	4,483	1,595	2,940
Maple	101	111	101	35	76
Minnesota	53	58	53	19	39
Wisconsin	42	47	42	14	33
Michigan	6	6	6	2	4
Birch	40	42	40	14	28
Minnesota	9	7	9	3	4
Wisconsin	31	35	31	11	24
Michigan	-	-	-	-	-
Basswood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Elm	60	65	60	20	45
Minnesota	12	13	12	4	9
Wisconsin	24	26	24	8	18
Michigan	24	26	24	8	18
Beech	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Oak	6,220	6,842	6,220	2,143	4,699
Minnesota	2,041	2,245	2,041	703	1,542
Wisconsin	2,952	3,247	2,952	1,017	2,230
Michigan	1,227	1,350	1,227	423	927
Aspen	345	378	345	118	260
Minnesota	168	185	168	58	127
Wisconsin	132	144	132	45	99
Michigan	45	49	45	15	34
Cottonwood	12	10	12	3	7
Minnesota	8	7	8	2	5
Wisconsin	4	3	4	1	2
Michigan	-	-	-	-	-
Miscellaneous	62	68	62	21	47
Minnesota	32	37	32	12	25
Wisconsin	16	17	16	5	12
Michigan	14	14	14	4	10
Hardwood total	6,840	7,516	6,840	2,354	5,162
Minnesota	2,323	2,552	2,323	801	1,751
Wisconsin	3,201	3,519	3,201	1,101	2,418
Michigan	1,316	1,446	1,316	452	993
All Species	15,586	16,355	15,586	5,463	10,892
Minnesota	3,816	4,058	3,816	1,331	2,727
Wisconsin	5,971	6,317	5,971	2,085	4,232
Michigan	5,799	5,980	5,799	2,047	3,933

Table 10. - Net timber drain resulting from cutting utility poles in the Lake States - 1952

Species and total	Net timber drain by size classes: Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	228	88	228	49	39
Minnesota	213	83	213	46	37
Wisconsin	15	5	15	3	2
Michigan	-	-	-	-	-
Jack pine	616	242	616	135	107
Minnesota	601	237	601	132	105
Wisconsin	15	5	15	3	2
Michigan	-	-	-	-	-
Spruce	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	7	2	7	1	1
Minnesota	7	2	7	1	1
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cedar	3,815	1,499	3,815	834	665
Minnesota	2,855	1,121	2,855	624	497
Wisconsin	408	161	408	89	72
Michigan	552	217	552	121	96
Hemlock	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Softwood total	4,666	1,831	4,666	1,019	812
Minnesota	3,676	1,443	3,676	803	640
Wisconsin	438	171	438	95	76
Michigan	552	217	552	121	96
Maple	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-

Species and total	Net timber drain by size classes: Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
Birch	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Basswood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Elm	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Beech	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Oak	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Aspen	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cottonwood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Miscellaneous	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hardwood total	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
All Species	4,666	1,831	4,666	1,019	812
Minnesota	3,676	1,443	3,676	803	640
Wisconsin	438	171	438	95	76
Michigan	552	217	552	121	96

Table 11. - Net timber drain resulting from cutting hewn ties in the Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Jack pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Spruce	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	72	26	72	17	9
Minnesota	53	19	53	12	7
Wisconsin	9	4	9	3	1
Michigan	10	3	10	2	1
Cedar	199	71	199	45	26
Minnesota	54	18	54	12	6
Wisconsin	20	7	20	4	3
Michigan	125	46	125	29	17
Hemlock	20	7	20	4	3
Minnesota	-	-	-	-	-
Wisconsin	5	2	5	1	1
Michigan	15	5	15	3	2
Softwood total	291	104	291	66	38
Minnesota	107	37	107	24	13
Wisconsin	34	13	34	8	5
Michigan	150	54	150	34	20
Maple	86	25	86	20	5
Minnesota	6	1	6	1	-
Wisconsin	3	1	3	1	-
Michigan	77	23	77	18	5
Birch	41	12	41	9	2
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	41	12	41	9	2
Basswood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Elm	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Beech	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Oak	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Aspen	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cottonwood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Ash	3	1	3	1	-
Minnesota	3	1	3	1	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hardwood total	130	38	130	30	8
Minnesota	9	2	9	2	-
Wisconsin	3	1	3	1	-
Michigan	118	35	118	27	8
All Species	421	142	421	96	46
Minnesota	116	39	116	26	13
Wisconsin	37	14	37	9	5
Michigan	268	89	268	61	28

Table 12. - Net timber drain resulting from cutting logs and bolts for mine materials in Lake States - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	133	53	133	37	16
Minnesota	28	11	28	8	3
Wisconsin	-	-	-	-	-
Michigan	105	42	105	29	13
Red pine	123	50	123	34	16
Minnesota	120	49	120	33	16
Wisconsin	-	-	-	-	-
Michigan	3	1	3	1	-
Jack pine	1,525	624	1,525	425	199
Minnesota	1,525	624	1,525	425	199
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Spruce	46	19	46	12	7
Minnesota	41	17	41	11	6
Wisconsin	-	-	-	-	-
Michigan	5	2	5	1	1
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	4,359	1,782	4,359	1,214	568
Minnesota	1,526	624	1,526	425	199
Wisconsin	233	95	233	65	30
Michigan	2,600	1,063	2,600	724	339
Cedar	4,686	1,915	4,686	1,304	611
Minnesota	728	297	728	203	94
Wisconsin	348	143	348	97	46
Michigan	3,610	1,475	3,610	1,004	471
Hemlock	535	219	535	149	70
Minnesota	-	-	-	-	-
Wisconsin	84	34	84	23	11
Michigan	451	185	451	126	59
Softwood total	11,407	4,662	11,407	3,175	1,487
Minnesota	3,968	1,622	3,968	1,105	517
Wisconsin	665	272	665	185	87
Michigan	6,774	2,768	6,774	1,885	883
Maple	4,877	1,361	4,877	1,100	261
Minnesota	111	31	111	25	6
Wisconsin	143	40	143	32	8
Michigan	4,623	1,290	4,623	1,043	247
Birch	1,408	392	1,408	317	75
Minnesota	35	10	35	8	2
Wisconsin	76	21	76	17	4
Michigan	1,297	361	1,297	292	69
Basswood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Elm	464	130	464	105	25
Minnesota	215	60	215	48	12
Wisconsin	29	8	29	7	1
Michigan	220	62	220	50	12
Beech	248	70	248	56	14
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	248	70	248	56	14
Oak	74	20	74	16	4
Minnesota	-	-	-	-	-
Wisconsin	19	5	19	4	1
Michigan	55	15	55	12	3
Aspen	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Ash	359	99	359	80	19
Minnesota	359	99	359	80	19
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Miscellaneous	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hardwood total	7,430	2,072	7,430	1,674	398
Minnesota	720	200	720	161	39
Wisconsin	267	74	267	60	14
Michigan	6,443	1,798	6,443	1,453	345
All Species	18,837	6,734	18,837	4,849	1,885
Minnesota	4,688	1,822	4,688	1,266	556
Wisconsin	932	346	932	245	101
Michigan	13,217	4,566	13,217	3,338	1,228

Table 13. - Net timber drain resulting from cutting cooperate logs & bolts in the Lake States - 1962

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Red pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Jack pine	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Spruce	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Balsam	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Tamarack	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cedar	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hemlock	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Softwood total	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Maple	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Birch	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Basswood	61	11	61	11	-
Minnesota	19	3	19	3	-
Wisconsin	42	8	42	8	-
Michigan	-	-	-	-	-
Elm	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Beech	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Oak	1,660	287	1,660	287	-
Minnesota	-	-	-	-	-
Wisconsin	1,660	287	1,660	287	-
Michigan	-	-	-	-	-
Aspen	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Cottonwood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Miscellaneous	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Hardwood total	1,721	298	1,721	298	-
Minnesota	19	3	19	3	-
Wisconsin	1,702	295	1,702	295	-
Michigan	-	-	-	-	-
All Species	1,721	298	1,721	298	-
Minnesota	19	3	19	3	-
Wisconsin	1,702	295	1,702	295	-
Michigan	-	-	-	-	-

Table 14. - Net timber drain resulting from cutting miscellaneous rough forest products - 1952

Species and total	Net timber drain by size classes				
	Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	540	195	540	120	75
Minnesota	180	65	180	40	25
Wisconsin	180	65	180	40	25
Michigan	180	65	180	40	25
Red pine	325	120	325	75	45
Minnesota	145	55	145	35	20
Wisconsin	70	25	70	15	10
Michigan	110	40	110	25	15
Jack pine	690	245	690	155	90
Minnesota	290	105	290	65	40
Wisconsin	145	55	145	35	20
Michigan	255	85	255	55	30
Spruce	175	55	175	35	20
Minnesota	70	20	70	15	5
Wisconsin	35	10	35	5	5
Michigan	70	25	70	15	10
Balsam	465	165	465	105	60
Minnesota	180	65	180	40	25
Wisconsin	70	25	70	15	10
Michigan	215	75	215	50	25
Tamarack	175	55	175	35	20
Minnesota	70	20	70	15	5
Wisconsin	35	10	35	5	5
Michigan	70	25	70	15	10
Cedar	2,235	805	2,235	510	295
Minnesota	290	105	290	65	40
Wisconsin	505	180	505	115	65
Michigan	1,440	520	1,440	330	190
Hemlock	140	50	140	30	20
Minnesota	-	-	-	-	-
Wisconsin	70	25	70	15	10
Michigan	70	25	70	15	10
Softwood total	4,745	1,690	4,745	1,065	625
Minnesota	1,225	435	1,225	275	160
Wisconsin	1,110	395	1,110	245	150
Michigan	2,410	860	2,410	545	315
Maple	3,375	1,020	3,375	780	240
Minnesota	-	-	-	-	-
Wisconsin	900	270	900	210	60
Michigan	2,475	750	2,475	570	180
Birch	1,790	540	1,790	415	125
Minnesota	1,520	460	1,520	350	110
Wisconsin	225	70	225	55	15
Michigan	45	10	45	10	-
Basswood	675	195	675	150	45
Minnesota	315	90	315	70	20
Wisconsin	270	80	270	60	20
Michigan	90	25	90	20	5
Elm	315	95	315	75	20
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	315	95	315	75	20
Beech	2,700	815	2,700	615	200
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	2,700	815	2,700	615	200
Oak	400	125	400	105	20
Minnesota	40	10	40	10	-
Wisconsin	45	20	45	20	-
Michigan	315	95	315	75	20
Aspen	9,990	3,005	9,990	2,280	725
Minnesota	7,740	2,320	7,740	1,760	560
Wisconsin	1,530	460	1,530	350	110
Michigan	720	225	720	170	55
Cottonwood	-	-	-	-	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	-	-	-	-	-
Miscellaneous	45	10	45	10	-
Minnesota	-	-	-	-	-
Wisconsin	-	-	-	-	-
Michigan	45	10	45	10	-
Hardwood total	19,290	5,805	19,290	4,430	1,375
Minnesota	9,615	2,880	9,615	2,190	690
Wisconsin	2,970	900	2,970	695	205
Michigan	6,705	2,025	6,705	1,545	480
All Species	24,035	7,495	24,035	5,495	2,000
Minnesota	10,840	3,315	10,840	2,465	850
Wisconsin	4,080	1,295	4,080	940	355
Michigan	9,115	2,885	9,115	2,090	795

Table 15. - Total net timber drain resulting from cutting in the Lake States - 1952

Species and Total	Net timber drain by size classes: Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
White pine	50,797	12,133	50,797	9,872	2,261
Minnesota	19,434	4,542	19,434	3,743	799
Wisconsin	18,833	4,463	18,833	3,647	816
Michigan	12,530	3,128	12,530	2,482	646
Red pine	39,525	9,553	39,525	7,704	1,849
Minnesota	23,894	5,691	23,894	4,626	1,065
Wisconsin	11,351	2,781	11,351	2,228	553
Michigan	4,280	1,081	4,280	850	231
Jack pine	71,710	42,536	71,710	15,959	26,577
Minnesota	47,440	25,920	47,440	10,482	15,438
Wisconsin	11,248	9,539	11,248	2,705	6,834
Michigan	13,022	7,077	13,022	2,772	4,305
Spruce	24,642	36,998	24,642	6,769	30,229
Minnesota	14,653	23,625	14,653	4,121	19,504
Wisconsin	2,283	3,208	2,283	606	2,602
Michigan	7,706	10,165	7,706	2,042	8,123
Balsam	19,149	31,607	19,149	5,455	26,152
Minnesota	8,875	13,407	8,875	2,449	10,958
Wisconsin	3,584	6,061	3,584	1,022	5,039
Michigan	6,690	12,139	6,690	1,984	10,155
Tamarack	8,416	4,714	8,416	2,321	2,393
Minnesota	3,640	2,525	3,640	1,034	1,491
Wisconsin	1,557	906	1,557	424	482
Michigan	3,219	1,283	3,219	863	420
Cedar	24,532	13,575	24,532	6,616	6,969
Minnesota	6,552	2,801	6,552	1,551	1,250
Wisconsin	4,819	3,203	4,819	1,388	1,815
Michigan	13,161	7,571	13,161	3,677	3,894
Hemlock	145,188	37,450	145,188	28,241	9,209
Minnesota	-	-	-	-	-
Wisconsin	49,959	12,849	49,959	9,698	3,151
Michigan	95,229	24,601	95,229	18,543	6,059
Softwood total	383,959	188,566	383,959	82,937	105,629
Minnesota	124,488	78,511	124,488	28,006	50,505
Wisconsin	103,634	43,010	103,634	21,718	21,292
Michigan	155,837	67,045	155,837	33,213	33,832
Maple	271,025	72,362	271,025	54,442	17,920
Minnesota	2,696	795	2,696	556	239
Wisconsin	76,800	23,302	76,800	15,968	7,334
Michigan	191,529	48,265	191,529	37,918	10,347

Species and total	Net timber drain by size classes: Total		Sawtimber		Poletimber
	M bd.ft.	M cu.ft.	M bd.ft.	M cu.ft.	M cu.ft.
Birch	92,429	27,781	92,429	19,056	8,725
Minnesota	8,561	3,258	8,561	1,959	1,299
Wisconsin	25,430	9,270	25,430	5,492	3,778
Michigan	58,438	15,253	58,438	11,605	3,648
Basswood	59,400	13,621	59,400	11,257	2,364
Minnesota	13,404	3,309	13,404	2,611	698
Wisconsin	27,806	6,486	27,806	5,274	1,212
Michigan	18,190	3,826	18,190	3,372	454
Elm	83,720	24,922	83,720	17,150	7,772
Minnesota	11,683	3,882	11,683	2,536	1,346
Wisconsin	33,433	8,792	33,433	6,559	2,233
Michigan	38,604	12,248	38,604	8,055	4,193
Beech	35,036	10,081	35,036	7,277	2,804
Minnesota	-	-	-	-	-
Wisconsin	1,393	395	1,393	287	108
Michigan	33,643	9,686	33,643	6,990	2,696
Oak	157,274	59,041	157,274	35,444	23,597
Minnesota	26,943	11,067	26,943	6,251	4,816
Wisconsin	77,567	31,208	77,567	18,009	13,199
Michigan	52,764	16,766	52,764	11,184	5,582
Aspen	122,221	132,008	122,221	31,177	100,831
Minnesota	44,532	44,086	44,532	11,674	32,412
Wisconsin	46,341	48,451	46,341	11,644	36,807
Michigan	31,348	39,471	31,348	7,859	31,612
Cottonwood	13,226	4,951	13,226	3,011	1,940
Minnesota	6,842	2,548	6,842	1,550	998
Wisconsin	2,940	1,029	2,940	650	379
Michigan	3,444	1,374	3,444	811	563
Miscellaneous	23,845	7,849	23,845	5,117	2,732
Minnesota	3,803	1,956	3,803	974	982
Wisconsin	8,822	2,864	8,822	1,895	969
Michigan	11,220	3,029	11,220	2,248	781
Hardwood total	858,176	352,616	858,176	183,931	168,685
Minnesota	118,464	70,901	118,464	28,111	42,790
Wisconsin	300,532	131,797	300,532	65,778	66,019
Michigan	439,180	149,918	439,180	90,042	59,876
All Species	1,242,135	541,182	1,242,135	266,868	274,314
Minnesota	242,952	149,412	242,952	56,117	93,295
Wisconsin	404,166	174,807	404,166	87,496	87,311
Michigan	595,017	216,963	595,017	123,255	93,708

FOREST PRODUCTS HARVESTED

1952

Table 16. - Sawlog and sawbolt production in the Lake States - 1952

ies / id / in	Volume out and destination			
	Total	Minn.	Wis.	Mich.
	M bd.ft., Int'l 1/4-inch			
e pine	57,250	22,150	22,000	13,100
inn.	22,150	22,150	-	-
is.	21,400	-	21,400	-
ich.	13,700	-	600	13,100
pine	43,600	26,200	13,000	4,400
inn.	26,200	26,200	-	-
is.	12,850	-	12,850	-
ich.	4,550	-	150	4.400
k pine	61,380	41,180	8,200	12,000
inn.	41,180	41,180	-	-
is.	8,100	-	8,100	-
ich.	12,100	-	100	12,000
uce	7,720	3,570	950	3,200
inn.	3,570	3,570	-	-
is.	850	-	850	-
ich.	3,300	-	100	3,200
sam	3,800	2,600	650	550
inn.	2,600	2,600	-	-
is.	650	-	650	-
ich.	550	-	-	550
arack	2,420	1,020	850	550
inn.	1,020	1,020	-	-
is.	850	-	850	-
ich.	550	-	-	550
lar	6,680	2,080	1,350	3,250
inn.	2,080	2,080	-	-
is.	1,300	-	1,300	-
ich.	3,300	-	50	3,250
nlock	107,550	-	41,350	66,200
inn.	-	-	-	-
is.	36,950	-	36,650	300
ich.	70,600	-	4,700	65,900
twoods	290,400	98,800	88,350	103,250
Minn.	98,800	98,800	-	-
Wis.	82,950	-	82,650	300
Mich.	108,650	-	5,700	102,950
ple	229,560	1,310	74,150	154,100
Minn.	1,510	1,310	200	-
Wis.	63,250	-	62,950	300
Mich.	164,800	-	11,000	153,800
rch	62,100	5,500	23,100	33,500
Minn.	5,500	5,500	-	-
Wis.	16,900	-	16,900	-
Mich.	39,700	-	6,200	33,500

Species and origin	Volume out and destination			
	Total	Minn.	Wis.	Mich.
	M bd.ft., Int'l 1/4-inch			
Basswood	48,770	9,370	24,400	15,000
Minn.	9,770	9,370	400	-
Wis.	23,350	-	23,300	50
Mich.	15,650	-	700	14,950
Elm	65,780	9,080	24,800	31,900
Minn.	9,280	9,080	200	-
Wis.	23,800	-	23,800	-
Mich.	32,700	-	800	31,900
Beech	26,500	-	1,500	25,000
Minn.	-	-	-	-
Wis.	1,300	-	1,300	-
Mich.	25,200	-	200	25,000
Oak	124,830	20,630	58,000	46,200
Minn.	20,930	20,630	300	-
Wis.	57,400	-	57,400	-
Mich.	46,500	-	300	46,200
Aspen	131,200	38,900	54,900	37,400
Minn.	38,900	38,900	-	-
Wis.	55,000	-	53,900	1,100
Mich.	37,300	-	1,000	36,300
Ash	13,690	1,790	5,800	6,100
Minn.	1,790	1,790	-	-
Wis.	5,550	-	5,500	50
Mich.	6,350	-	300	6,050
Cottonwood	9,270	4,020	2,650	2,600
Minn.	4,420	4,020	400	-
Wis.	2,250	-	2,250	-
Mich.	2,600	-	-	2,600
Walnut	560	200	50	310
Minn.	200	200	-	-
Wis.	50	-	50	-
Mich.	310	-	-	310
Misc.	3,350	150	300	2,900
Minn.	150	150	-	-
Wis.	300	-	300	-
Mich.	2,900	-	-	2,900
Hardwoods	715,610	90,950	269,650	355,010
Minn.	92,450	90,950	1,500	-
Wis.	249,150	-	247,650	1,500
Mich.	374,010	-	20,500	353,510
All Species	1,006,010	189,750	358,000	458,260
Minn.	191,250	189,750	1,500	-
Wis.	332,100	-	330,300	1,800
Mich.	482,660	-	26,200	456,460

Table 17. - Veneer log production and imports in the Lake States - 1952

Species and origin	Volume cut and destination					Imports		Total receipts
	Total	Minn.	Wis.	Mich.	Other U.S.	Other U.S.	Foreign Canada	
	M bd.ft. Int'l 1/4-inch					M bd.ft. Int'l 1/4-inch		
White pine	238	8	49	181	-	-	28	266
Minn.	8	8	-	-	-	-	-	8
Wis.	49	-	49	-	-	-	-	49
Mich.	181	-	-	181	-	-	28	209
Hemlock	145	-	145	-	-	-	-	145
Minn.	-	-	-	-	-	-	-	-
Wis.	145	-	145	-	-	-	-	145
Mich.	-	-	-	-	-	-	-	-
Softwoods	383	8	194	181	-	-	28	411
Minn.	8	8	-	-	-	-	-	8
Wis.	194	-	194	-	-	-	-	194
Mich.	181	-	-	181	-	-	28	209
Maple	23,801	41	14,373	9,278	109	392	790	24,874
Minn.	831	41	790	-	-	-	-	41
Wis.	7,233	-	7,233	-	-	392	548	15,313
Mich.	15,737	-	6,350	9,278	109	-	242	9,520
Birch	18,237	96	10,755	7,386	-	12	8,840	27,089
Minn.	344	96	83	165	-	-	-	96
Wis.	4,669	-	4,414	255	-	12	6,705	17,472
Mich.	13,224	-	6,258	6,966	-	-	2,135	9,521
Basswood	10,385	1,041	7,082	2,262	-	540	25	10,950
Minn.	3,072	1,041	1,918	113	-	-	-	1,041
Wis.	4,068	-	4,068	-	-	540	25	7,647
Mich.	3,245	-	1,096	2,149	-	-	-	2,262
Elm	11,474	442	9,009	2,014	9	257	23	11,745
Minn.	971	431	540	-	-	-	-	442
Wis.	7,909	11	7,898	-	-	257	-	9,266
Mich.	2,594	-	571	2,014	9	-	23	2,037
Beech	3,157	-	917	2,240	-	-	-	3,157
Minn.	-	-	-	-	-	-	-	-
Wis.	16	-	16	-	-	-	-	917
Mich.	3,141	-	901	2,240	-	-	-	2,240
Oak	5,067	-	3,704	1,229	134	309	111	5,353
Minn.	806	-	806	-	-	-	-	-
Wis.	3,431	-	2,640	791	-	309	106	4,119
Mich.	830	-	258	438	134	-	5	1,234
Aspen	1,390	164	964	262	-	2	3	1,395
Minn.	657	164	493	-	-	-	-	164
Wis.	471	-	471	-	-	2	3	969
Mich.	262	-	-	262	-	-	-	262
Miscellaneous	4,332	72	3,502	612	146	654	97	4,937
Minn.	1,362	72	1,196	63	31	-	-	72
Wis.	1,965	-	1,965	-	-	4	97	3,603
Mich.	1,005	-	341	549	115	650	-	1,262
Hardwoods	77,843	1,856	50,306	25,283	398	2,166	9,889	89,500
Minn.	8,043	1,845	5,826	341	31	-	-	1,856
Wis.	29,762	11	28,705	1,046	-	1,516	7,484	59,306
Mich.	40,038	-	15,775	23,896	367	650	2,405	28,338
All Species	78,226	1,864	50,500	25,464	398	2,166	9,917	89,911
Minn.	8,051	1,853	5,826	341	31	-	-	1,864
Wis.	29,956	11	28,899	1,046	-	1,516	7,484	59,500
Mich.	40,219	-	15,775	24,077	367	650	2,433	28,547

Table 18. - Cooperage log production in the Lake States - 1952

Species and origin	Volume cut and destination				
	Total	Minn.	Wis.	Mich.	Other U. S.
	M bd.ft. Int'l 1/4-inch				
Basswood	40	-	40	-	-
Minnesota	-	-	-	-	-
Wisconsin	40	-	40	-	-
Michigan	-	-	-	-	-
Oak	1,599	-	1,599	-	-
Minnesota	18	-	18	-	-
Wisconsin	1,581	-	1,581	-	-
Michigan	-	-	-	-	-
Hardwoods	1,639	-	1,639	-	-
Minnesota	18	-	18	-	-
Wisconsin	1,621	-	1,621	-	-
Michigan	-	-	-	-	-
All Species	1,639	-	1,639	-	-
Minnesota	18	-	18	-	-
Wisconsin	1,621	-	1,621	-	-
Michigan	-	-	-	-	-

Table 19. - Pulpwood production and imports in the Lake States - 1952

Species and origin	Volume out and destination					Imports		
	Total	Minn.	Wis.	Mich.	Other U. S.	Other U. S.	Foreign Canada	Total receipts
	Std.cds. (rough wood)					Std.cds. (rough wood)		
k pine	346,687	105,094	192,711	48,882	-	128,736	124,146	599,569
inn.	193,693	104,969	87,436	1,288	-	-	48,719	153,813
is.	94,916	125	91,934	2,857	-	128,736	43,707	365,154
ich.	58,078	-	13,341	44,737	-	-	31,720	80,602
uce	451,592	142,060	275,874	33,658	-	4,361	583,005	1,038,958
inn.	292,676	142,060	150,491	125	-	-	49,086	191,146
is.	38,910	-	38,910	-	-	2,865	453,332	732,071
ich.	120,006	-	86,473	33,533	-	1,496	80,587	115,741
sam	391,461	62,043	282,928	46,490	-	26	26,487	417,974
inn.	163,267	62,043	101,224	-	-	-	240	62,283
is.	75,795	-	75,795	-	-	26	4,573	287,527
ich.	152,399	-	105,909	46,490	-	-	21,674	68,164
aarack	14,340	8,874	5,466	-	-	225	141	14,706
inn.	12,731	8,874	3,857	-	-	-	141	9,015
is.	1,412	-	1,412	-	-	225	-	5,691
ich.	197	-	197	-	-	-	-	-
nlock	190,660	-	130,854	59,806	-	-	-	190,660
inn.	-	-	-	-	-	-	-	-
is.	65,793	-	63,681	2,112	-	-	-	130,854
ich.	124,867	-	67,173	57,694	-	-	-	59,806
twoods	1,394,740	318,071	887,833	188,836	-	133,348	733,779	2,261,867
inn.	662,367	317,946	343,008	1,413	-	-	98,186	416,257
is.	276,826	125	271,732	4,969	-	131,852	501,612	1,521,297
ich.	455,547	-	273,093	182,454	-	1,496	133,981	324,313
ple	17,507	-	10,496	7,011	-	-	-	17,507
inn.	-	-	-	-	-	-	-	-
is.	10,000	-	10,000	-	-	-	-	10,496
ich.	7,507	-	496	7,011	-	-	-	7,011
rch	25,356	19	25,337	-	-	-	7,202	32,558
inn.	2,342	19	2,323	-	-	-	-	19
is.	14,627	-	14,627	-	-	-	6,599	31,936
ich.	8,387	-	8,387	-	-	-	603	603
m	17,121	-	5,000	12,121	-	-	-	17,121
inn.	-	-	-	-	-	-	-	-
is.	5,000	-	5,000	-	-	-	-	5,000
ich.	12,121	-	-	12,121	-	-	-	12,121
ech	1,241	-	-	1,241	-	-	-	1,241
inn.	-	-	-	-	-	-	-	-
is.	-	-	-	-	-	-	-	-
ich.	1,241	-	-	1,241	-	-	-	1,241
k	745	-	-	745	-	-	-	745
inn.	-	-	-	-	-	-	-	-
is.	-	-	-	-	-	-	-	-
ich.	745	-	-	745	-	-	-	745
pen	820,507	240,969	475,186	85,343	19,009	-	92,255	893,753
inn.	269,992	234,502	35,490	-	-	-	60,752	301,721
is.	275,499	6,467	269,032	-	-	-	14,736	489,922
ich.	275,016	-	170,664	85,343	19,009	-	16,767	102,110
sc.	3,283	2,042	-	1,241	-	-	-	3,283
inn.	2,042	2,042	-	-	-	-	-	2,042
is.	-	-	-	-	-	-	-	-
ich.	1,241	-	-	1,241	-	-	-	1,241
ardwoods	885,760	243,030	516,019	107,702	19,009	-	99,457	966,208
inn.	274,376	236,563	37,813	-	-	-	60,752	303,782
is.	305,126	6,467	298,659	-	-	-	21,335	537,354
ich.	306,258	-	179,547	107,702	19,009	-	17,370	125,072
ll Species	2,280,500	561,101	1,403,852	296,538	19,009	133,348	833,236	3,228,075
inn.	936,743	554,509	380,821	1,413	-	-	158,938	720,039
is.	581,952	6,592	570,391	4,969	-	131,852	522,947	2,058,651
ich.	761,805	-	452,640	290,156	19,009	1,496	151,351	449,385

Table 20. - Production of fuelwood, chemical wood, excelsior bolts in the Lake States - 1952

Species and origin	Volume cut			Species and origin	Volume cut		
	1/ Fuelwood	Chemical wood	Excelsior		1/ Fuelwood	Chemical wood	Excelsio
	Standard Cords				Standard Cords		
te pine	26,000	-	-	Basswood	45,000	-	4,005
innesota	6,000	-	-	Minnesota	25,000	-	104
isconsin	5,000	-	-	Wisconsin	15,000	-	3,710
ichigan	15,000	-	-	Michigan	5,000	-	191
pine	17,000	-	-	Cherry	-	376	-
innesota	7,000	-	-	Minnesota	-	-	-
isconsin	5,000	-	-	Wisconsin	-	-	-
ichigan	5,000	-	-	Michigan	-	376	-
k pine	120,000	-	-	Elm	283,000	2,400	-
innesota	85,000	-	-	Minnesota	58,000	-	-
isconsin	30,000	-	-	Wisconsin	75,000	200	-
ichigan	5,000	-	-	Michigan	150,000	2,200	-
uce	6,000	-	-	Beech	110,000	7,393	-
innesota	1,000	-	-	Minnesota	-	-	-
isconsin	-	-	-	Wisconsin	5,000	320	-
ichigan	5,000	-	-	Michigan	105,000	7,073	-
sam	6,000	-	-	Oak	942,000	2,580	-
innesota	1,000	-	-	Minnesota	167,000	-	-
isconsin	-	-	-	Wisconsin	565,000	240	-
ichigan	5,000	-	-	Michigan	210,000	2,340	-
arack	39,000	-	-	Aspen	851,000 2/	-	75,782
innesota	24,000	-	-	Minnesota	386,000	-	588
isconsin	10,000	-	-	Wisconsin	290,000	-	36,945
ichigan	5,000	-	-	Michigan	175,000	-	38,249
ar	10,000	-	-	Ash	-	2,560	-
innesota	5,000	-	-	Minnesota	-	-	-
isconsin	-	-	-	Wisconsin	-	200	-
ichigan	5,000	-	-	Michigan	-	2,360	-
lock	20,000	-	-	Slabs, veneer cores, etc.	-	94,723	-
innesota	-	-	-	Minnesota	-	-	-
isconsin	5,000	-	-	Wisconsin	-	8,000	-
ichigan	15,000	-	-	Michigan	-	86,723	-
twoods	244,000	-	-	Miscellaneous	108,000	-	-
innesota	129,000	-	-	Minnesota	38,000	-	-
isconsin	55,000	-	-	Wisconsin	45,000	-	-
ichigan	60,000	-	-	Michigan	25,000	-	-
le	615,000	43,699	-	Hardwoods	3,243,000	176,248	79,787
innesota	10,000	-	-	Minnesota	733,000	-	692
isconsin	290,000	2,080	-	Wisconsin	1,415,000	12,000	40,655
ichigan	315,000	41,619	-	Michigan	1,095,000	164,248	38,440
rch	289,000	22,517	-	All Species	3,487,000	176,248	79,787
innesota	49,000	-	-	Minnesota	862,000	-	692
isconsin	130,000	960	-	Wisconsin	1,470,000	12,000	40,655
ichigan	110,000	21,557	-	Michigan	1,155,000	164,248	38,440

1/ Excludes slabwood, veneer cores, etc.
2/ Also includes some cottonwood.

Table 21. - Production of miscellaneous piece products in the Lake States - 1952

Species and origin	Piling	Poles	Posts	Hewn ties
	Thousand pieces			
te pine	.2	-	-	-
Minnesota	.2	-	-	-
Wisconsin	-	-	-	-
Michigan	-	-	-	-
l pine	4.5	8.4	150	-
Minnesota	3.6	7.9	150	-
Wisconsin	-	.5	-	-
Michigan	.9	-	-	-
k pine	3.3	22.8	465	-
Minnesota	3.3	22.2	440	-
Wisconsin	-	.6	25	-
Michigan	-	-	-	-
ruce	-	-	5	-
Minnesota	-	-	5	-
Wisconsin	-	-	-	-
Michigan	-	-	-	-
lsam	-	-	60	-
Minnesota	-	-	60	-
Wisconsin	-	-	-	-
Michigan	-	-	-	-
narack	.1	.3	1,110	15
Minnesota	.1	.3	500	11
Wisconsin	-	-	500	2
Michigan	-	-	110	2
dar	-	141.3	12,430	41
Minnesota	-	105.8	1,270	11
Wisconsin	-	15.1	3,850	4
Michigan	-	20.4	7,310	26
mlock	-	-	25	4
Minnesota	-	-	-	-
Wisconsin	-	-	25	1
Michigan	-	-	-	3
ftwoods	8.1	172.8	14,245	60
Minnesota	7.2	136.2	2,425	22
Wisconsin	-	16.2	4,400	7
Michigan	.9	20.4	7,420	31
ple	.7	-	160	12
Minnesota	-	-	80	-
Wisconsin	.2	-	70	1
Michigan	.5	-	10	11
Hickory	.2	-	-	-
Minnesota	-	-	-	-
Wisconsin	-	-	-	-
Michigan	.2	-	-	-
Birch	-	-	60	7
Minnesota	-	-	10	1
Wisconsin	-	-	50	-
Michigan	-	-	-	6
Elm	4.1	-	100	-
Minnesota	-	-	20	-
Wisconsin	3.2	-	40	-
Michigan	.9	-	40	-
Beech	.8	-	-	-
Minnesota	-	-	-	-
Wisconsin	-	-	-	-
Michigan	.8	-	-	-
Oak	8.0	-	10,135	-
Minnesota	-	-	3,325	-
Wisconsin	1.8	-	4,810	-
Michigan	6.2	-	2,000	-
Ash	.2	-	-	1
Minnesota	-	-	-	1
Wisconsin	.1	-	-	-
Michigan	.1	-	-	-
Aspen	-	-	580	-
Minnesota	-	-	285	-
Wisconsin	-	-	220	-
Michigan	-	-	75	-
Miscellaneous	.5	-	100	-
Minnesota	-	-	55	-
Wisconsin	-	-	25	-
Michigan	.5	-	20	-
Hardwoods	14.5	-	11,135	20
Minnesota	-	-	3,775	2
Wisconsin	5.3	-	5,215	1
Michigan	9.2	-	2,145	17
All Species	22.6	172.8	25,380	80
Minnesota	7.2	136.2	6,200	24
Wisconsin	5.3	16.2	9,615	8
Michigan	10.1	20.4	9,565	48

Table 22. - Production of mine timbers, heading stock & other miscellaneous cordwood products in the Lake States - 1952

Species and origin	Mine 1/ timbers	Heading stock	Misc. 2/ products	Species and origin	Mine 1/ timbers	Heading stock	Misc. 2/ products
	Thousand cubic feet				Thousand cubic feet		
te pine	58	-	150	Birch	327	65	400
innesota	13	-	50	Minnesota	8	-	340
isconsin	-	-	50	Wisconsin	18	50	50
ichigan	45	-	50	Michigan	301	15	10
pine	54	-	90	Basswood	-	240	150
innesota	52	-	40	Minnesota	-	10	70
isconsin	-	-	20	Wisconsin	-	225	60
ichigan	2	-	30	Michigan	-	5	20
k pine	663	-	190	Elm	108	40	70
innesota	663	-	80	Minnesota	50	-	-
isconsin	-	-	40	Wisconsin	7	40	-
ichigan	-	-	70	Michigan	51	-	70
uce	20	-	50	Beech	58	-	600
innesota	18	-	20	Minnesota	-	-	-
isconsin	-	-	10	Wisconsin	-	-	-
ichigan	2	-	20	Michigan	58	-	600
lsam	-	-	130	Oak	17	-	90
innesota	-	-	50	Minnesota	-	-	10
isconsin	-	-	20	Wisconsin	4	-	10
ichigan	-	-	60	Michigan	13	-	70
tarack	1,895	-	50	Ash	84	45	-
innesota	664	-	20	Minnesota	84	-	-
isconsin	101	-	10	Wisconsin	-	45	-
ichigan	1,130	-	20	Michigan	-	-	-
dar	2,038	-	620	Aspen	-	770	2,230
innesota	317	-	80	Minnesota	-	55	1,720
isconsin	151	-	140	Wisconsin	-	660	340
ichigan	1,570	-	400	Michigan	-	55	170
mlock	233	-	40	Cottonwood	-	55	-
innesota	-	-	-	Minnesota	-	-	-
isconsin	37	-	20	Wisconsin	-	10	-
ichigan	196	-	20	Michigan	-	45	-
ftwoods	4,961	-	1,320	Hardwoods	1,729	1,340	4,290
innesota	1,727	-	340	Minnesota	168	65	2,140
isconsin	289	-	310	Wisconsin	62	1,155	660
ichigan	2,945	-	670	Michigan	1,499	120	1,490
ple	1,135	125	750	All Species	6,690	1,340	5,610
innesota	26	-	-	Minnesota	1,895	65	2,480
isconsin	33	125	200	Wisconsin	351	1,155	970
ichigan	1,076	-	550	Michigan	4,444	120	2,160

1/ Cribbing, poles, trestle logs, hewed shaft timbers, smelter brands, etc.
2/ Rough forest products used for manufacture of matches, clothespins, bowling pins, handles, woodenware, toys, shingles, lath, log cabin material, etc.